What is claimed is

1. A method for interpolating a video signal having a plurality of present pixels comprising the steps of:

calculating a right side interpolation component and a left side interpolation component for each of the present pixels;

adding the right side interpolation component of a present pixel on the left side of an assumption pixel to be interpolated to the left side interpolation component of another present pixel on the right side of the assumption pixel, thereby obtaining a pixel data for the assumption pixel, wherein

the right side interpolation component and the left side interpolation component are calculated based on a pixel data of a central present pixel and pixel data of present pixels around the central present pixel.

The method according to claim 1 further comprising:

calculating an adjusting value based on a pixel data of a central present pixel and pixel data of present pixels around the central present pixel,

setting a polarity of the adjusting value based on pixel data of a pair of present pixels on both sides of the central present pixel,

calculating the right side interpolation component for the central present pixel based on a 1/2 value of the pixel data of the central present pixel and the

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adjusting value applied with a polarity,

calculating the left side interpolation component for the central present pixel based on a 1/2 value of the pixel data of the central present pixel and the adjusting value applied with the polarity.

The method according to claim 1 wherein at least five sequential present pixels in a direction selected from a horizontal direction, vertical direction and oblique direction are used as the central present pixel and present pixels around the central pixel.

The method according to claim 1 further comprising:

identifying pixel data of five sequential present pixels in a direction selected from a horizontal direction, vertical direction and oblique direction as a first pixel data, a second pixel data, a third pixel data, a fourth pixel data and a five pixel data in order,

obtaining a first value obtained by adding together an absolute value of the difference between the first and second pixel data and an absolute value of the difference between the second and third pixel data,

obtaining a second value obtained by adding together an absolute value of the difference between the second and third pixel data and an absolute value of the difference between the third and fourth pixel data,

obtaining a third value obtained by adding together an absolute value of the difference between the third

and fourth pixel data and an absolute value of the difference between the fourth and fifth pixel data,

selecting a minimum value from the first, second and third values,

multiplying the minimum value by a coefficient, setting a polarity of the minimum value multiplied by the coefficient by comparing the second pixel data with the fourth pixel data,

calculating a right side interpolation component by adding together a 1/2 value of the third pixel data and the minimum value applied with a polarity and multiplied by the coefficient,

calculating a left side interpolation component by subtracting the minimum value applied with a polarity and multiplied by the coefficient from the 1/2 value of the third pixel data.

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